

ITCE320

Network Programming

Quiz: 1

Date: Sun 04.10.2015

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Section: 1

Q1. Match the following to one of the seven OSI layers: [5 Marks]

a) Direct communication with the user's application program.

Application Layer

b) Error correction and retransmission.

Link Layer

c) Mechanical, electrical and functional interface.

Physical Layer

d) Responsibility for information transfer between adjacent nodes.

Link Layer

e) Reassembly of data packets.

Transport Layer

Transport

Q2. What are the advantages of message segmentation in packet-switched networks? What are the disadvantages? [2 Marks]

### Advantages

- If failure of delivery, only a small chunk has to be resent not the whole message
- Segmented Packets can be sent different routes depending on congestion

### Disadvantages

- If one segmented packet is missing, then the overall file cannot be read
- Need's a queuing and rebuilding system for segmented packets
- Nodal Processing
- More Bandwidth of Overhead